

TTCITTCI®*Vision*

To be the provider of choice  
for advancing railway safety  
and technology

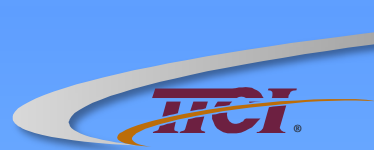
*Transportation Technology Center, Inc., a subsidiary of the Association of American Railroads*

**Stephen Berkshire**  
**Chief Inspector**

**Billy Benton**  
**Field Inspector**

# TOP 25 MID EXCEPTIONS





# **Objective of Presentation**

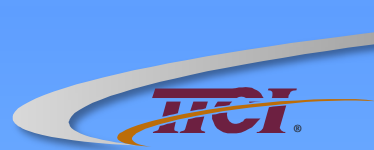
- ◆ **Explain the mission of the MID**
- ◆ **Brief History of MID**
- ◆ **Show Location of MID Inspectors**
- ◆ **Description Types of Exceptions**
- ◆ **Suggest ways to help Improve your facility's Inspection results**





- ◆ ***Assist the Rail Industry in providing safe transportation through Quality Assurance, Technical Inspections and Training, to ensure customers meet industry specifications, Codes of Federal Regulations (CFR) and AAR Interchange Requirements***





# MID HISTORY



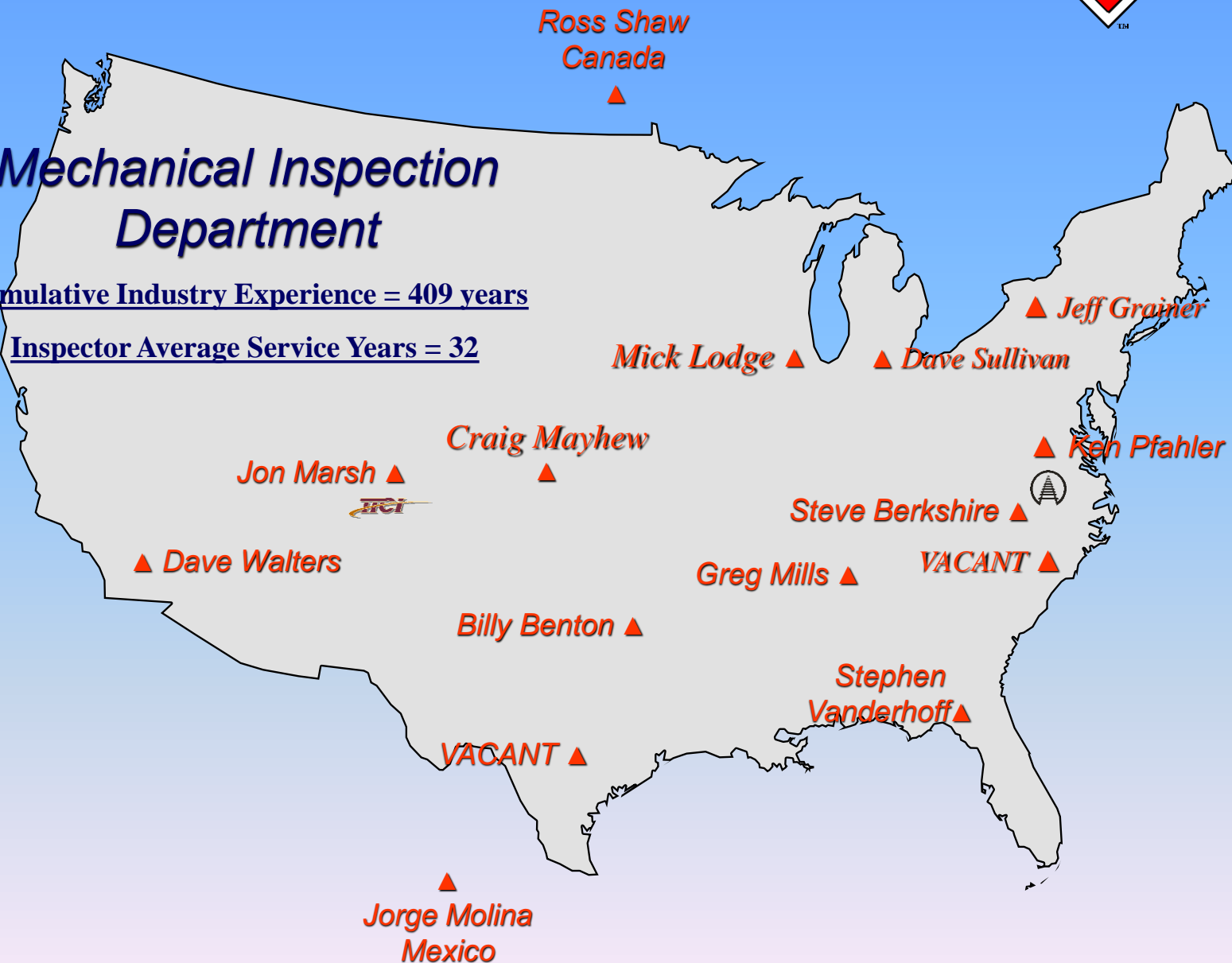
- ◆ ***"...and new Rule 124 added, to provide a system of checking by the A.R.A. Mechanical Inspection Department and authority for refund of proper charges detected by such checks, in the Interchange Rules instead of the Supplementary Regulations."*** Rule 124 was continued in place in 1934 when A.R.A. became the A.A.R.
- ◆ **A.A.R. is 80 Years Old this year**



# Mechanical Inspection Department

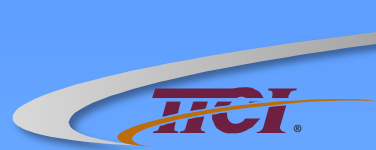
Cumulative Industry Experience = 409 years

Inspector Average Service Years = 32



# 2013 Exceptions Noted

	<i>Major</i>	<i>Moderate</i>	<i>Minor</i>	
Train Yard	64	17	8	89
Repair Track / Repair Facilities	821	340	649	1810
TOTALS	885	357	657	1899

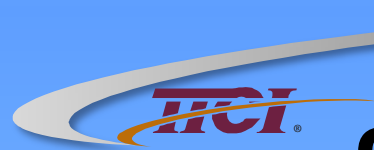


## **2013 – Top Exception Categories**



➤ <b>Outbound Inspection</b>	<b>359</b>
➤ <b>Material Storage – Wheel/AB</b>	<b>350</b>
➤ <b>Air Brake Items</b>	<b>338</b>
➤ <b>Publications</b>	<b>223</b>
➤ <b>Gages</b>	<b>156</b>





## **Outbound Inspection 359 exceptions**



- ◆ **Constant Contact Type Side Bearings - Clearances, Adjustments & Repairs**
- ◆ **Hand Brake Inspection-Lubrication**
- ◆ **Not Checking Wheel Impact Advisory**
- ◆ **Boxcar Doors not being Lubricated and Cycled**
- ◆ **Long Shank Couplers not Lubricated.**





- ◆ **Safety Appliances not repaired**
- ◆ **Anti-creep not correct**
- ◆ **Train line hose extensions not correct**
- ◆ **Boxcar and Gondolas' not being graded properly**
- ◆ **High Wedge rise on trucks**
- ◆ **F type retainer pin on Y-47 pin assembly**

# Material Storage – Wheel/AB 350 exceptions

- ◆ AIR BRAKE;
- ◆ Valves & Parts (161)
- ◆ Storage of Rebuild/New Parts
  - Truck mounted Pistons
  - Rebuilt Valves
  - Trainline Hoses
- ◆ Storage of Removed Parts
  - Valves with vents covered
  - Service Portions with stem protectors
- ◆ Gaskets (32)

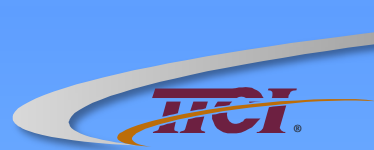


## ◆ WHEEL SETS;

### ◆ Stored Properly (157)

- Wheels not marked properly
- Scrap not marked on wheels that require it
- Overheat Bearings not marked
- Bearing information not applied to bearing
- V notch condition





# Air Brake Items

# 338 exceptions



- ◆ **SINGLE CAR TEST;**

- ◆ Device in service not working properly
- ◆ Performed Properly Manual and Automated
- ◆ Daily Test Performed Properly
- ◆ SCT Device or Air Gages Overdate

- ◆ **UMLER INFORMATION**

- ◆ Single car test device not modified (May 2013)  
Deadline is June 1, 2014 for these to be done
- ◆ Other





◆ **Out of date Rule 1**

- Hard Copy
- Electronic

◆ **Not available Rule 1**

- Should be available to the repairmen

◆ **Were unaware other than Rule 1 pubs were needed**

- Items like the S-327 for side frames – pedestal roofs
- Or the S-4009 / S-4010 for slack adjusters



## ◆ Unavailable Rule 1 gages

- Lost or misplaced
- Only have one gage for multiple sites

## ◆ Bent / Broken

- Broken
- Part missing
- Bent beyond use

## ◆ Did not know how to use them (on the rise)

- Younger work force
- Not enough emphasis on training
- Not used frequently enough

# How Do We Improve?



## ◆ Self Audits

- Checklist
- Internal audits

## ◆ Better Training

- In-house
- Consultants

## ◆ Mentorship

- Structured program
- vs. assigning someone to work with more experienced Carmen





# Self Audits



- ◆ Checklist Available at TTCI webpage

[http://mid.aar.com/mid-technical\\_checklist.htm](http://mid.aar.com/mid-technical_checklist.htm)

- ◆ Technical Checklist

Freight Car Maintenance Inspection

M-214 Checklist

Bearing Mounting Checklist

End Cap Removal Checklist

Extended Service Sample Car Checklist

Rule 88 Sample Car Checklist

New Car Builder Checklist

Wheel Shop Inspection Sheet







[http://mid.aar.com/mid-technical\\_checklist.htm](http://mid.aar.com/mid-technical_checklist.htm)



http://mid.aar.com/mid-technical\_checklist.htm - Internet Explorer

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## Technical Checklist

- [Freight Car Maintenance Inspection](#)
- [M-214 Checklist](#)
- [Bearing Mounting Checklist](#)
- [End Cap Removal Checklist](#)
- [Extended Service Sample Car Checklist](#)
- [Rule 88 Sample Car Checklist](#)
- [New Car Builder Checklist](#)
- [Wheel Shop Inspection Sheet](#)



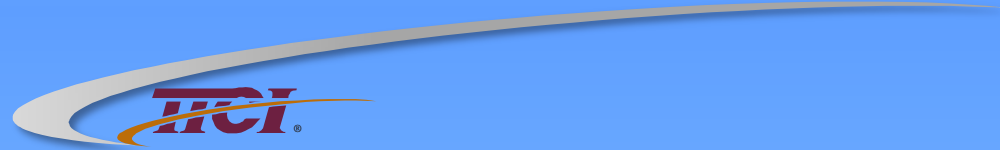


# Wrap-up



- ◆ **Correct Repairs on out-bound cars**
- ◆ **Material Storage**
- ◆ **Air Brake Items**
- ◆ **Publications**
- ◆ **Gages**





# QUESTIONS?

